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|--------------|-----|------------------|------------------|--------------|------------------|------------------|
| PPPPPPPPPPPP | | AAAAAAAAAA | TTTTTTTTTTTTTTTT | CCCCCCCCCCCC | HHH | HHH |
| PPPPPPPPPPPP | | AAAAAAAAAA | TTTTTTTTTTTTTTTT | CCCCCCCCCCCC | HHH | HHH |
| PPPPPPPPPPPP | | AAAAAAAAAA | TTTTTTTTTTTTTTTT | CCCCCCCCCCCC | HHH | HHH |
| PPP | PPP | AAA | TTT | CCC | HHH | HHH |
| PPP | PPP | AAA | TTT | CCC | HHH | HHH |
| PPP | PPP | AAA | TTT | CCC | HHH | HHH |
| PPP | PPP | AAA | TTT | CCC | HHH | HHH |
| PPP | PPP | AAA | TTT | CCC | HHH | HHH |
| PPP | PPP | AAA | TTT | CCC | HHH | HHH |
| PPPPPPPPPPPP | | AAA | TTT | CCC | HHH | HHH |
| PPPPPPPPPPPP | | AAA | TTT | CCC | HHHHHHHHHHHHHHHH | HHHHHHHHHHHHHHHH |
| PPPPPPPPPPPP | | AAA | TTT | CCC | HHHHHHHHHHHHHHHH | HHHHHHHHHHHHHHHH |
| PPP | | AAAAAAAAAAAAAAAA | TTT | CCC | HHH | HHH |
| PPP | | AAAAAAAAAAAAAAAA | TTT | CCC | HHH | HHH |
| PPP | | AAAAAAAAAAAAAAAA | TTT | CCC | HHH | HHH |
| PPP | | AAA | TTT | CCC | HHH | HHH |
| PPP | | AAA | TTT | CCC | HHH | HHH |
| PPP | | AAA | TTT | CCC | HHH | HHH |
| PPP | | AAA | TTT | CCC | HHH | HHH |
| PPP | | AAA | TTT | CCCCCCCCCCCC | HHH | HHH |
| PPP | | AAA | TTT | CCCCCCCCCCCC | HHH | HHH |
| PPP | | AAA | TTT | CCCCCCCCCCCC | HHH | HHH |

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|----------|----|----|-----|-----|----------|-----|-----|----------|
| SSSSSSSS | YY | YY | MM | MM | FFFFFFFF | MM | MM | TTTTTTTT |
| SSSSSSSS | YY | YY | MM | MM | FFFFFFFF | MM | MM | TTTTTTTT |
| SS | YY | YY | MMM | MMM | FF | MMM | MMM | TT |
| SS | YY | YY | MMM | MMM | FF | MMM | MMM | TT |
| SS | YY | YY | MM | MM | FF | MM | MM | TT |
| SS | YY | YY | MM | MM | FF | MM | MM | TT |
| SSSSSS | YY | YY | MM | MM | FFFFFF | MM | MM | TT |
| SSSSSS | YY | YY | MM | MM | FFFFFF | MM | MM | TT |
| SS | YY | YY | MM | MM | FF | MM | MM | TT |
| SS | YY | YY | MM | MM | FF | MM | MM | TT |
| SS | YY | YY | MM | MM | FF | MM | MM | TT |
| SSSSSS | YY | YY | MM | MM | FF | MM | MM | TT |
| SSSSSS | YY | YY | MM | MM | FF | MM | MM | TT |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | | |
|----------|----------|--------|
| RRRRRRRR | EEEEEEEE | QQQQQQ |
| RRRRRRRR | EEEEEEEE | QQQQQQ |
| RR | EE | QQ |
| RR | EE | QQ |
| RR | EE | QQ |
| RR | EE | QQ |
| RRRRRRRR | EEEEEEEE | QQ |
| RRRRRRRR | EEEEEEEE | QQ |
| RR | EE | QQ |
| RR | EE | QQ |
| RR | EE | QQ |
| RR | EE | QQ |
| RR | EE | QQ |
| RR | EEEEEEEE | QQ |
| RR | EEEEEEEE | QQ |

Version: 'V04-000'

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MODULE: SYMFMT.REQ

FACILITY: LINKER

ABSTRACT: SYMBOL TABLE ENTRY FORMAT DEFINITION

HISTORY:

AUTHOR: T.J. PORTER 21-FEB-77

MODIFICATIONS:

| NO. | DATE | PROGRAMMER | PURPOSE |
|-----|------|------------|---------|
| --- | --- | ----- | ----- |

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FUNCTIONAL DESCRIPTION:

THIS IS A REQUIRED FILE WHICH DEFINES ALL THE
STRUCTURE REFERENCE MACROS FOR THE FIELDS
OF SYMBOL TABLE ENTRIES.

```

GLOBAL LITERAL
SYM$C_TBL$IZ = 128 : WEAK;
BYTEBLOCKFIELDS (SYM,
    L_VALUE,4,
    L_PSCLST,4,

    B_NAM$NG,1,
    T_NAME,SYM$C_MAX$NG,
    L_COLIST,4,
    W_ENTMSK,2,
    W_FLAGS,2,
    B_DATYP,1,
    B_LST$NG,1 );

! DEFINE SYMBOL TABLE SIZE
BLOCK NAME IS 'SYMS'
SYMBOL VALUE
THREAD FROM DEFINING P-SECTION
NOTE: THE ABOVE TWO ENTRIES MUST
---- BE FIRST SINCE THEY ARE
      RE-USED AS FORWARD AND
      BACK POINTERS IN THE
      UNDEFINED SYMBOL LIST.

SYMBOL STRING LENGTH
STRING
COLLISION LIST POINTER
ENTRY POINT MASK
FLAGS WORD
DATA TYPE
LENGTH OF COLLISION LIST

DEFINE EQUIVALENCING MACROS FOR FLINK AND BLINK OF THE UNDEFINED
SYMBOL LIST -- SEE ABOVE NOTE.

MACRO
SYM$L_UDFLINK = SYM$L_VALUE%, ! FORWARD LINK IS THE VALUE FIELD
SYM$L_UDFBLINK = SYM$L_PSCLST%; ! BACKWARD LINK IS THE OWNING P-SECT THREAD

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